

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Bondurant Fire Station Sewage System, Bondurant, Wyoming

ARCHITECT OR ENGINEER: None, submitted by William T. Wills, Secretary,
Bondurant Fire Department

WATER QUALITY DIVISION REFERENCE NUMBER: 75-51

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: May 12, 1975

ACTION: Construction authorized. (See compliance items.)

COMMENTS:

1. One foot per 100 feet minimum slope on sewage line to septic tank.
2. Recommend septic tank be concrete instead of fiberglass, as fiberglass tanks have a tendency to get crushed.
3. Recommend sealed-perimeter evaporation field be installed as large as possible as Bondurant area does not get much noticeable evaporation during winter months.

HJS:jk
5/16/75

cc: Phillip Hughes, District Sanitarian, Green River, Wyoming
Burton Butcher, Sublette County Zoning Office, Pinedale, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Municipal Improvements - 8" Force Main, Town of Mills, Mills, Wyoming

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc.,
632 So. David, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-52

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 13, 1975

ACTION: Construction authorized.

COMMENTS:

1. The statement under "Section 15 add:" on page 56-2 of the specifications should read:

"Authorized representatives of the Environmental Protection Agency or the Wyoming Department of Environmental Quality shall have the same privileges."

2. Omit the word "under" from the first line of paragraph "B-2 Vertical Separation" on CS-21-1 of the specifications.

RHP:jk
5/16/75

cc: Orren Bower, Consulting Engineer, Lander, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: ~~Eastgate Addition~~ Casper Board of Public Utilities
Casper, Wyoming 135 West 8th Street, Casper, Wyoming 82601
ATTN: Noel Stratton
2. ARCHITECT OR ENGINEER: E.C. Linnhart, P.E.
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-53
4. REVIEWING ENGINEER: Jake Strubman, Robert Panther, P.E.
5. DATE OF REVIEW: May 20, 1975
6. ACTION: Construction Authorized
7. COMMENTS:
City of Casper Sewer and Water Specifications to be complied with.
Are there any water lines in vicinity that are not shown on plans?

HJS:lav
5/21/75

cc: Mix Anderson, Casper-Natrona Co. Health Dept., Casper, Wyoming.
Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Eastgate, Horizon Heights, Kelley Heights, Longview #3 Additions
Water Distribution Extensions

ARCHITECT OR ENGINEER: C.O. Andersen, Casper Board of Public Utilities
136 W. 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-53, 75-57, 75-21, 75-76

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines installed, disinfected, and tested per "Casper Board of Public Utilities" water specifications.
- 2) All dead ends of water mains are to have a fire hydrant or flushing valve installed.

JS/PS/mf

cc: Nix Andersen

Hand in

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

November 17, 1975

1. PROJECT: Black Thunder Mine, Atlantic Richfield Company, Campbell County.
c/o John K. Hold, Atlantic Richfield Co., Coal Operations, 1500 Security Life
Building, 1616 Glenarm, Denver, Colorado 80202
2. ARCHITECT OR ENGINEER: H-K Ferguson Company,
Cleveland, Ohio
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-54
4. REVIEWING ENGINEER: Roy E. Prior , Robert Pinther, P.E. *Robert Pinther*
5. DATE OF REVIEW: 11/14/75
6. ACTION: Limited Authorization to construction (see comments).
7. COMMENTS: This authorization to construct is for your Permanent
septic tank system at the Train Loadout and for your Temporary septic tank
system for construction trailers.

The approval of the rest of your facilities will be withheld until the
additional information is supplied to this office.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Black Thunder Mine Site - Atlantic Richfield
Sewage Treatment - Cambell County

c/o John Held
Atlantic Richfield
Company
Coal Operations 1500
Security Life Bldg.
1616 Glenarm,
Denver, Colo. 80202

ARCHITECT OR ENGINEER: H-K Ferguson Company
Cleveland, Ohio

WATER QUALITY DIVISION REFERENCE NUMBER: 75-54R

REVIEWING ENGINEER: Roy E. Prior, Paul C. Schwiéger, P.E. *PS*

DATE OF REVIEW: January 30, 1976

ACTION: Limited Authorization to Construct (See Comments)

COMMENTS: This authorization covers all sewage facilities and the potable water system as far as the treatment plant inlet. It does not cover the water treatment works or distribution system.

As per previous communications, we are not presently considering the water system which was submitted, and are waiting for further information from you on this matter.

15

See Below

- RLB:j1

WQD

R. Prior

HKF :

E. Leason

A. Palmowski

HKF Field Office



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Paradise Valley Sewer and Water Extension,
Indian Paint Brush and Yucca Circle Block "B"

ARCHITECT OR ENGINEER: Oren J. Bower, P.E., Worthington, Lenhart & Carpenter, Inc.
632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-55

REVIEWING ENGINEER: Jake Strohman, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: June 12, 1975

ACTION: Construction authorized. (See compliance items.)

COMMENTS:

It is Water Quality Division of Department of Environmental Quality's understanding that lots will be private single family residences. If sewer and water connections are to be installed for mobile home occupancy of lots before they are sold by the owner, our office will need plans detailing a typical lot showing water and sewer risers and branch pipes and specifications for these materials on all lots prior to construction.

1) On sheet 1 of 4 of water distribution system, a fire hydrant, blow off valve or flushing hydrant will have to be installed at the location of temporary dead end located by lots 52 and 55.

HJS:jk
6/17/75

cc: Nix Anderson, 241 S. Conwell, Casper, WY.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lakeside Lodge, Fremont Lake, Pinedale, Wyoming
Owner: Dick Stott, P. O. Box 654, Pinedale, Wyoming 82941

ARCHITECT OR ENGINEER: None listed.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-56, Cross-reference 66-121

REVIEWING ENGINEER: Jake Strohman, W. L. Garland, P.E.

DATE OF REVIEW: May 20, 1975

ACTION: Construction not authorized.

COMMENTS:

Our records show the septic tank to be 900 gallons and the leach field to be 100 linear feet of trench with trench width at 24 inches and with a percolation rate of seven minutes per inch drop. With the above information, we cannot authorize this project as your leach field is undersized and your septic tank volume is suspect.

Enclosure: Wyoming Water Quality Rules & Regulations 1975, Chapter III.

The following items are required to evaluate system and obtain authorization to construct:

1. Two complete sets of plans,
2. Engineer's seal or signature, (See enclosure, section 4, subparagraph 2.),
3. Maximum number of persons to patronize lodge during a one day period,
4. Is there a lodge or motel manager who resides on premises during tourist season?,
5. Show vertical distance from lodge to location where force main dumps into line from motel to septic tank. Is motel line from force main to septic tank 4 inches? Recommend this section of line be larger than 4 inches. Recommend a collection box be installed where force main connects with line from motel to septic tank as a force main into septic tank will cause solids to be flushed out of septic tank into leach field and the resultant effect is a clogged leach field,

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lakeside Lodge, Fremont Lake, Pinedale, Wyoming
Owner: Dick Stott, P. O. Box 654, Pinedale, Wyoming 82941

ARCHITECT OR ENGINEER: None listed.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-56, Cross-reference 66-121

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: May 20, 1975

ACTION: Construction not authorized.

COMMENTS: (cont'd)

6. Give procedure for pressure testing force main prior to burial,
7. Show location of 130 gpm pump and plumbing. Is there to be a standby pump or standby power for emergency in case of pump mechanical failure or power outage. If not, how do you plan to get sewage to the septic tank should either of the above situations arise?,
8. Furnish this Department with the information on how the volume of effluent from motel and lodge was obtained. Give us a typical section of leach trench and additional linear footage required. Detail of collection box or whatever is decided upon to prevent force main from dumping into septic tank. Give ejector pump characteristics.

HJS:jk
5/22/75

cc: Burton Butcher, Sublette County Zoning Office, Pinedale, Wyoming
Phillip Hughes, District Sanitarian, Green River, Wyoming
District Engineer, U.S. Forest Service, Pinedale, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Horizon Heights Addition Sewer Extension, Casper, Wyoming

ARCHITECT OR ENGINEER: G & S Engineering, ATTN: V. J. Gronski, P.E.,
136 So. Wolcott St., Rm. 301, Casper, Wyoming 82601.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-57

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: May 20, 1975

ACTION: Construction authorized.

COMMENTS:

NOTE: Approval is also required from this office on water supply extension prior to construction.

HJS:jk
5/28/75

cc: Andy Anderson, Casper Board of Public Utilities, Casper, Wyoming
Nix Anderson, Casper-Natrona County Health Dept., Casper, Wyoming
Thomas Bechtel (Developer), Casper, Wyoming

Dist.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Eastgate, Horizon Heights, Kelley Heights, Longview #3 Additions
Water Distribution Extensions

ARCHITECT OR ENGINEER: C.O. Andersen, Casper Board of Public Utilities
136 W. 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-53, 75-57, 75-21, 75-76

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines installed, disinfected, and tested per "Casper Board of Public Utilities" water specifications.
- 2) All dead ends of water mains are to have a fire hydrant or flushing valve installed.

JS/PS/mf

cc: Nix Andersen

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Westland Estates Trailer Park, Converse County

ARCHITECT OR ENGINEER: Charles K. Wolz, P. O. Box 322, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: May 23, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Water lines to be "NSF" approved material.
2. Cleanouts are not acceptable. Manholes are required. In addition to manholes meeting your specifications, state calking material used to make manholes water tight. Give a typical manhole detail and show locations.
3. Show a typical lot illustrating location of water and sewer users. Give a typical detail of water and sewer risers. Show connection of sewer and water lines to mainlines.
4. Water and sewer to have ten foot horizontal spacing.
5. Minimum slope for 6 inch sewer lines is .0067%. A minimum of 2 fps velocity is required with pipe flowing full. If pipe is flowing less than half full, a rule of thumb is to double the slope. If a future expansion is anticipated I would recommend that 8 inch line be installed at this time.
6. Give water line disinfection procedure. (AWWA C601-68)
7. Water lines should be a complete loop with source or blowoff valves, fire hydrants or flushing hydrants should be installed at the end of water mains. Show hydraulic analysis that water supply can meet all conditions of flow demand at a minimum pressure of 20 psi. Furnish the following information on your well and water distribution system:
 - a. depth of well;
 - b. yield of well;
 - c. pump characteristics;
 - d. actual pump output;
 - e. storage capacity (40 gallon pressure tank is not sufficient for this trailer park);

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

PROJECT: Westland Estates Trailer Park, Converse County

ARCHITECT OR ENGINEER: Charles K. Wolz, P. O. Box 322, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: May 23, 1975

ACTION: Construction is not authorized.

COMMENTS: (cont'd #7)

- f. well construction details (i.e., sanitary seal, depth of grout seal, depth above ground that casing terminates, depth of impervious layer that well penetrates, etc.);
 - g. show details of well house construction and storage facilities;
 - h. chemical and bacteriological analysis of well water sample.
- 8. Water line shown on plans as passing thru manhole or cleanout is not acceptable.
 - 9. Give details of inlet and outlet structures on lagoon.
 - 10. Warning signs required on lagoon.
 - 11. 112 people would require a lagoon of over 1 acre in size with an operating depth of 3 feet to 5 feet to enable the lagoon to be anerobic. We would recommend a multiple cell lagoon to meet the parameters of the discharge permit. The first cell would be lined with bentonite as you show on plans and be over one acre in size. A second or possibly a third cell would be used as a polishing pond. We would recommend that the lagoon system be designed as full retention because a discharge from this system requires a discharge permit, monitoring and a certified wastewater treatment operator. Enclosed please find an application for a discharge permit to be filed six months preceding any discharge. Chlorination will also be required if lagoon discharges to meet fecal coliform parameter.

HJS:jk
5/28/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming.
Fred Dilts, Jr., Box 701, Douglas, Wyoming.
James I. Burns, 533 South 9th Street, Douglas, Wyoming.
Robert Coffman, Environmental Surveillance & Control, DHSS, Cheyenne, Wyoming.

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Westland Estates Trailer Park Owner: Fred Dilts
Converse County Box 701, Douglas, Wyoming

ARCHITECT OR ENGINEER: Ken Wolz, P.E.
Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58 RR

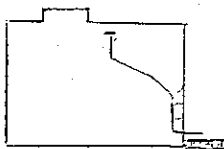
REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see mandatory compliance items)

COMMENTS:

- 1) Vent and overflow shall be installed and routed down inside of water tank to prevent freezing. Standoffs should be used in the inside to prevent freezing.



CONCRETE SPLASH PAD

- 2) All installations of plans and specifications approved this date shall be completed prior to operating any more than the 13 units approved on June 11, 1975. Lagoon first cell is to be increased to one acre surface area and second lagoon installed prior to any additional trailers being operated.
- 3) After installation of the new water system, engineer and owner will perform a pressure test at the flushing hydrant on the end of water main at the East end of trailer park. This test will be performed with open faucets on at least six (6) mobile homes on this water main. Final approval of water system is subject to results of this pressure test furnished to Division of Water Quality. THIS TEST IS TO BE ACCOMPLISHED and water system approved prior to operation of any more trailers than the original thirteen (13).

JS/PS/mf

cc: Malcolm Crawford
Owner
Robert Coffman

Plan

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Westland Estates Trailer Park Owner: Fred Dilts
Converse County Box 701, Douglas, Wyoming

ARCHITECT OR ENGINEER: Ken Wolz, P.E.
Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58 RR

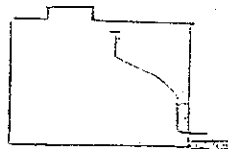
REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see mandatory compliance items)

COMMENTS:

- 1) Vent and overflow shall be installed and routed down inside of water tank to prevent freezing. Standoffs should be used in the inside to prevent freezing.



CONCRETE SPLASH PAD

- 2) All installations of plans and specifications approved this date shall be completed prior to operating any more than the 13 units approved on June 11, 1975. Lagoon first cell is to be increased to one acre surface area and second lagoon installed prior to any additional trailers being operated.
- 3) After installation of the new water system, engineer and owner will perform a pressure test at the flushing hydrant on the end of water main at the East end of trailer park. This test will be performed with open faucets on at least six (6) mobile homes on this water main. Final approval of water system is subject to results of this pressure test furnished to Division of Water Quality. THIS TEST IS TO BE ACCOMPLISHED and water system approved prior to operation of any more trailers than the original thirteen (13).

JS/PS/mf

cc: Malcolm Crawford
Owner
Robert Coffman

*Department of Environmental Quality**Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 12, 1976

Fred Dilts
Western Agency
Box 701
Douglas, Wyoming 82633

Dear Mr. Dilts:

On March 29, 1976, I inspected Westland Mobile Home Park at Douglas. The following items have not been built according to plans and specifications:

1. No vent on top of water storage tank.
2. No lock on access to water storage tank.
3. No screen on flush line or structural support for the end of the overflow line to ensure required distance above standing water or runoff water.
4. No overflow manhole from first cell to second cell of lagoon.
5. No second lagoon cell.

The water pressure as reported by Ken Wolz is satisfactory and hereby accepted.

All the above items were required on your construction permit to be installed prior to the operation of any additional units other than the original 13. The second cell may not be required for some time, but the manhole overflow structure should be installed while the water level is low. It would be to your advantage to construct the second cell also at this time as a spill could result in a \$10,000 fine.

Where is the vent and overflow?

Should any questions arise, do not hesitate to contact me.

Yours truly,

A handwritten signature in cursive script, appearing to read "Jake Strohman".

Jake Strohman
Environmental Engineer
Water Quality Division

JS/js

cc: Ken Wolz, Box 322, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Westland Estates Trailer Park, Box 701, Douglas, Wyoming 82633

ARCHITECT OR ENGINEER: C. K. Wolz, P.E., P. O. Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58R

REVIEWING ENGINEER: Jake Strohman, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: June 11, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plan and specifications:

- a) In a meeting with the owner, Mr. Dilts, the fact was brought to our attention that sewer and water lines (installed) extending to the mobile home risers do not have required ten (10) foot horizontal spacing. These sewer lines will have to be pressure tested to a minimum pressure of 50 psi. If sewer line cannot meet this requirement, the ten (10) foot spacing will have to be adhered to. All future additions will have to have this ten foot separation. The minimum horizontal distance between water risers and sewer risers can be five (5) feet but ten (10) feet is preferred.
- b) A four (4) inch minimum vertical separation is required between ground surface and outlets on sewer and water risers. Both sewer and water risers should be supported with a concrete slab four (4) inches thick and 12 inches diameter at ground level.
- c) Well pit must have a drain to daylight.
- d) Need details and specifications for storage tank (consult "Ten State Standards for Water" or AWWA specifications.). Storage tank is also to be disinfected prior to use.
- e) Our maximum water demand estimation differs a great amount from your estimation. For 25 mobile homes the peak demand should be 65 gpm and for 100 mobile homes the value is 105 gpm. The pressure tank only stores 10 to 20 percent of its volume, so actual storage is only about 25 gallons. Since this will in no way meet the demands of the distribution system and a storage tank is to be installed, we recommend that you pump from well to this storage tank and feed system by gravity (if feasible) or by a pressure pump pumping out of storage tank.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Westland Estates Trailer Park, Box 701, Douglas, Wyoming 82633

ARCHITECT OR ENGINEER: C. K. Wolz, P.E., P.O. Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-58R

REVIEWING ENGINEER: Jake Strohman, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: June 11, 1975

ACTION: Construction is not authorized.

COMMENTS: (cont'd)

If not, pressure tank will have to be increased in volume to ten to fifteen times the volume of pump in gpm (260 to 360 gal.) and this system still may not be adequate (see enclosures).

- f) In meeting with Mr. Dilts, we were informed of his intention to have a "no discharge" condition from lagoons. If this is the case, no aeration equipment would be required. The first cell would have to be sealed as shown on your plans and designed on one (1) acre surface area per 100 people. The second or retention lagoon would not require lining and require retention design for 5 to 6 months depending on percolation. We are strongly opposed to your outlets from lagoon (see enclosure for minimum standards). Note manhole preceding lagoon. Your design on plans and specifications is sufficient if you and landowner decide on discharge except for manhole preceding lagoon and outlet structures.

In the meeting with Mr. Dilts on June 9, 1975, item a) was agreed to be adhered to and sewage lagoon was agreed to be full retention. Manholes were to be put in on section of sewer line (as shown on plan recieved June 9, 1975) already installed. It was agreed at this time that the thirteen (13) lots already installed and the existing pressure tank and water distribution system was sufficient for (13) trailers. Mutual agreement was also made that items b) thru f) will be incorporated into plans, forwarded to Water Quality Division and so installed before August 10, 1975. Under this compliance schedule, it was agreed to allow operation of the first 13 mobile home lots already constructed providing requirements of Environmental Surveillance and Control were adhered to on these lots in the iterim.

HJS:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming
Mr. Dilts, Owner

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sagebrush Motel, Sewer line and lift station, Jackson, Wyoming

ARCHITECT OR ENGINEER: None listed; Nelson, Haley, Patterson & Quirk, Inc.
625 East Main
Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-59

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: May 23, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Wyoming licensed engineer in charge of project has to have his seal or signature on plans.
2. What is 100 year flood elevation?
3. Wet well floor to have a 1:1 slope to intake of pump.
4. State elevation above flow line of manhole that force main will enter manhole.
5. All electrical wiring and equipment is to comply with National Board of Fire Underwriters specifications for hazardous conditions.
6. What would maximum retention time of wet well be? Give your estimation and how you arrived at this time.
7. Alarm system should be telemetered to municipal facility or preferably a facility of 24 hour attendance.
8. Standby power should be furnished or a 2 hour retention overflow reservoir should be provided.

HJS:jk

5/27/75

cc: Phillip Hughes, District Sanitarian, Green River.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cheyenne Information Center Sewer Extension

ARCHITECT OR ENGINEER: Howard Guill, P.E., Wyoming Highway Department
ATTN: Gary Brown, P. O. Box 1708, Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-60

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E.

DATE OF REVIEW: May 27, 1975

ACTION: Construction authorized.

COMMENTS:

1. Tie ends of leach fields together.
2. Four inch line to be installed at minimum slope or greater to provide a self cleansing velocity of 2 fps.
3. Mound trenches 4" to 6" to prevent settling from causing runoff water from percolating thru trench.
4. Leach field trench should be as flat as possible. (Maximum 6 inches per 100 ft.)

HJS:jk
5/28/75

cc: Don Pack, Cheyenne, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Fort Steele Rest Area, Carbon County

ARCHITECT OR ENGINEER: Wyoming Highway Department, ATTN: Gary Brown,
P. O. Box 1708, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-61

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E.

DATE OF REVIEW: May 28, 1975

ACTION: Construction authorized.

COMMENTS:

Mount sand filter drain field to prevent settling from causing runoff water to percolate thru field.

HJS:jk
5/28/75

cc: Phillip Hughes, District Sanitarian, Green River, Wyoming

B-1

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Rawhide Village, Campbell County, Wyoming
Owner: P.K. Ely, P.O. Box 133, Gillette, Wyoming 82716

ARCHITECT OR ENGINEER: R.J. Timm, P.E., Plains Engineering, Box 117,
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-62R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: June 24, 1975

ACTION: Construction authorized.

COMMENTS:

1. Install drain (at street location) from water storage tank in such a manner that level of standing water in corrugated metal pipe is below the bottom of the outlet of drain pipe.

Four sets of plans and specifications sent to Environmental Surveillance and Control for their portion of review. Three sets to be forwarded to Engineer upon completion.

HJS:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY
Robert Coffman, Director, Environmental Surveillance and Control, Cheyenne, WY
P.K. Ely, Owner, Gillette, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Rawhide Village, Campbell County, Wyoming
Owner: P. K. Ely, P. O. Box 133, Gillette, Wyoming 82716

ARCHITECT OR ENGINEER: R. J. Timm, P.E. Plains Engineering
Box 117
Gillette, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-62

REVIEWING ENGINEER: Jake Strohman, Paul C. Schwieger, P.E.

DATE OF REVIEW: May 29, 1975

ACTION: Construction is not authorized

COMMENTS: The following items will have to be incorporated into plans and specifications:

1. Cleanouts are not acceptable. Manholes will have to be installed at Station 9 + 30 on line "B" and Station 8 + 88 on line "C".
2. Reference:
 1. Sewer details, page 6 of 6
 2. Water lines, page 1 of 2
 3. Enclosure for minimum requirements for sewer-water crossovers. 18" separation should be maintained from bottom of water line to top of sewer. Your typical section does not reflect your specifications for crossovers. Structural support is also required per enclosure, Paragraph 8.4.3.2, subparagraph 2.
3. Two pneumatic ejectors are required. Show pit enlargement to facilitate both units.
4. Is a 2 foot manhole sufficient for compressor and ejector removal?
5. Mechanical ventilation required in ejector pit when occupied.
6. Does electrical equipment comply with National Board of Fire Writers Specifications for hazardous conditions? (gas)
7. Give detail of drain from potable water supply to street (at street).

Enclosed please find application for discharge permit to be filed six months preceding discharge. (to owner)

HJS:jk

Enclosure

5/30/75

cc: Malcolm Crawford, District Sanitarian, Gillette
Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne
P. K. Ely, Owner, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING--WEST
Cheyenne, WY 82002

1. PROJECT: Rawhide Village, Campbell County, Wyoming
Owner: R. K. Ely, P. O. Box 133, Gillette, Wyo. 82716
2. ARCHITECT OR ENGINEER: R. J. Timm, P. E., Plains Engineering
Box 117, Gillette, Wyoming 82716
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: 875-107 (75-62)
4. REVIEWED BY: Malcolm D. Crawford, M. H., District Sanitarian, Gillette D. C.
5. DATE OF REVIEW: July 24, 1975
6. ACTION: Not approved pending receipt of additional information
7. COMMENTS:

Additional information needed concerning the following

1. Locations of central lighting
2. Location and design of garbage can racks for individual mobile homes, frequency of garbage pick-up, final disposition of garbage and person or firm to pick up garbage.
3. Location of emergency toilet facilities
4. Typical lot lay out showing vehicle parking areas, location and material of walk ways and placement of mobile home.

CC: R. L. Coffman, MPH, Director Environmental Surveillance & Control, Cheyenne
Owner: R. K. Ely, P. O. Box 133, Gillette, Wyoming

Department of Environmental Quality
Water Quality Division
State Office Building West
Cheyenne, Wyoming



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mountain View Motel Trailer Park, Buffalo, Wyoming

ARCHITECT OR ENGINEER: None listed; R. G. Stuckert
P. O. Box 901
Buffalo, Wyoming 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 75-63

REVIEWING ENGINEER: Jake Strohman, Paul C. Schwieger, P.E.

DATE OF REVIEW: May 29, 1975

ACTION: Construction is not authorized.

COMMENTS: Reference: 1. "Wyoming Water Quality Rules & Regulations", 1975, Chapter III.

1. Note requirements of Wyoming licensed engineer's seal or signature per reference 1), Section 4, subparagraph 2.
2. Need letter of verification from city of Buffalo that their sewage treatment facility is capable of handling added hydraulic and organic load and that they can supply 350 gallons of water per unit at a minimum pressure of 20 psi.
3. Give typical detail of manholes.
4. Line from manhole (inv.66.6) to Fort Street manhole (inv.61.16) will have to be a straight line or install another manhole at the change in direction.
5. Give typical detail of water-sewer line crossovers or give specifications.
6. Show dimension of 10' minimum separation between water and sewer lines.
7. Water and sewer riser cannot be installed in the same 24" CMP. A minimum of five feet horizontal separation is required and we recommend ten feet. Show a typical lot with sewer and water riser locations. Give details and specifications on sewer and water risers.
8. State trench backfill requirements.
9. Install valves in water distribution system to prevent a line break from necessitating entire trailer park without water.
10. State material specifications of water lines and sewer lines.
11. State disinfection procedure for water lines prior to use. (AWWA C601-68)

HJS:jk

5/30/75

Enclosure (ref. 1)

cc: Malcolm Crawford, District Sanitarian, Gillette

Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mountain View Motel Trailer Park, Buffalo, WY 82834

ARCHITECT OR ENGINEER: None Listed; R. G. Stuckert, P. O. Box 901, Buffalo, WY 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 75-63R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: June 11, 1975

ACTION: Construction is not authorized.

COMMENTS:

Plans Lack

1. Signature or seal of Wyoming licensed engineer. Note Enclosure. Steve Freudenthal, one of Department of Environmental Quality Attorney General Assistants says that this interpretation of the state law as to what type of work an engineer or land surveyor can perform for cities and towns would have the same interpretation as for your situation and that your signature to sewer and water hydraulics is not acceptable. If any further information on this subject is required, Mr. Freudenthal may be reached in Cheyenne at 777-7781. What about item (E) on page 5 of ordinance 841? P.S. There is a fine for practicing engineering without a license.
2. State material used in prefab manhole joints required for water tightness.
3. A stop and drain valve on water risers located below ground surface, standing water or surface runoff water level is not acceptable. (This statement should be included on item 7 of your June 5, 1975 letter.)

HJS:jk
6/17/75

Enclosure

cc: Malcolm Crawford, District Sanitarian, Gillette, WY.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mountain View Motel Trailer Park, Buffalo, Wyoming

ARCHITECT OR ENGINEER: John B. Wesnitzer, P.E., R.G. Stuckert and Associates, Inc.,
P. O. Box 901, Buffalo, Wyoming 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 75-63RR

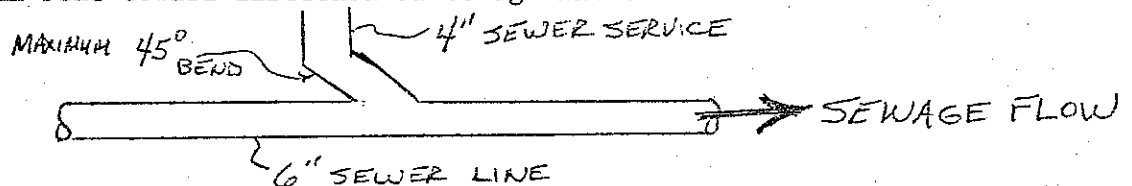
REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 7, 1975

ACTION: Construction authorized (See compliance item).

COMMENTS:

1. Four inch sewer service line to enter 6 inch collection line at a 45° maximum bend toward direction of sewage flow.



2. A set of plans will have to be forwarded to Environmental Surveillance and Control for their portion of the review. (Three sets of plans are required for application for this office with two sets forwarded to Environmental Surveillance and Control with one approved set returned to applicant upon final approval.)

Environmental Surveillance and Control representative for your area is
Malcolm Crawford, MSPH, Box 973, Gillette, Wyoming 82716; Phone: 682-4651.

HJS:jk
7/8/75

cc: Malcolm Crawford, MSPH, Gillette, Wyoming
Robert Coffman, Environmental Surveillance and Control, Cheyenne, Wyoming
Roy Prior, Water Quality Division, DEQ, Cheyenne, Wyoming

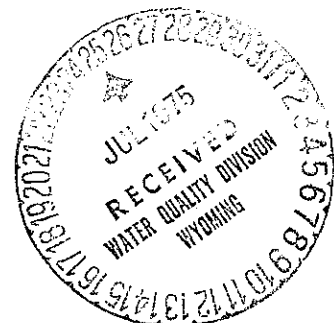
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING--WEST
Cheyenne, WY 82002

1. PROJECT: Mountain View Motel Trailer Park, Buffalo, Wyoming 82834
Owner: Norman Kenitzer
2. ARCHITECT OR ENGINEER: John E. Wesnitzer, P. E., R. G. Stuckert & Assoc., Inc.
P. O. Box 901, Buffalo, Wyoming 82834
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S75-120 (75-63RR)
Sanitarian
4. REVIEWED BY: Malcolm D. Crawford, MSPH, District ~~11144~~, Gillette D. O.
5. DATE OF REVIEW: July 24, 1975
6. ACTION: Approve
7. COMMENTS:

Note: plans returned to Engineer

CC: R. L. Coffman, MPM, Director Environmental Surveillance & Control, Cheyenne
Norman Kenitzer, Buffalo, Wyoming
Water Quality Division, Cheyenne



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cactus Garden Court, Block 2, Powell, Wyoming
Owner: Ken Reno, 905 Ave. K, Powell, Wyoming 82435

ARCHITECT OR ENGINEER: Richard E. Myrick, P.E., 620 Shoshone Street,
Powell, Wyoming 82435

WATER QUALITY DIVISION REFERENCE NUMBER: 75-64

REVIEWING ENGINEER: Jake Strohman, Robert H. Pinther, P.E.

DATE OF REVIEW: June 2, 1975

ACTION: Construction is not authorized

COMMENTS: The following items will have to be incorporated in plans and specifications:

1. A letter of verification from the City of Powell stating that their wastewater treatment facility is capable of handling added organic and hydraulic load for sewer and can adequately supply 350 gallons per lot per day at a minimum pressure of 20 psi under all conditions of flow demand for water.
2. A manhole will have to be installed in E. Sixth St. where 6" line from lots 15 thru 32 connect with the sewer in E. Sixth St. Install 8" line from lots 1 thru 14 intersects.
3. Insure that neither the manhole nor the lamphole is located under a trailer.
4. Alter Section 2-04 Disinfection, Subsection A.1., line 8 of the 1969 Water-line Improvement Specifications, City of Powell to read: "and shall produce not less than 25 ppm of chlorine at".
5. Show a typical lot detail illustrating sewer and water lines and a typical detail of sewer and water riser. Sewer line from single residence may be 4" but cannot enter collection line at a 90 degree angle.
6. Submit City of Powell specifications covering sanitary sewer construction.
Note: Infiltration limit shall be no greater than 200 gallons per inch of sewer diameter per mile of sewer per 24 hours.

HJS:jk

6/4/75

cc: William George, District Sanitarian, Worland.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cactus Garden Court, Block 2, Powell, Wyoming
Owner: Ken Keno, 905 Ave K, Powell, Wyoming 82435

ARCHITECT OR ENGINEER: Richard Myrick, P.E., 620 Shoshone, Powell, Wyoming 82435

WATER QUALITY DIVISION REFERENCE NUMBER: 75-64R

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: June 23, 1975

ACTION: Construction authorized

COMMENTS:

1. State sealing compound to be used to make prefab manhole joints watertight.

One set of plans has been forwarded to Environmental Surveillance and Control for their portion of the review. (In future submittals, three copies of plans should be sent to Water Quality Division of Department of Environmental Quality if approved copy is required for owner.)

HJS:jk

cc: Robert Coffman, Director, Environmental Surveillance and Control, Cheyenne, WY
William George, District Sanitarian, Worland, WY
Ken Keno, Owner, Powell, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Septic Tank System serving Sunnyside Baptist Church, Cheyenne, Wyoming.

ARCHITECT OR ENGINEER: E. P. Kelley, Cheyenne Ave., Cheyenne
Submitted by: Walter Woake, 5604 Sycamore Road, Cheyenne

WATER QUALITY DIVISION REFERENCE NUMBER: 75-65

REVIEWING ENGINEER: Frank A. Harnan, P.E.

DATE OF REVIEW: June 4, 1975

ACTION: Authorized for construction.

COMMENTS:

FRH:jh
6/4/75

cc: Don Pack, Director, Environmental Health, City County Health Unit, Cheyenne

2001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

PROJECT: Tarver Addition
Sewer and Water Extension

ARCHITECT OR ENGINEER: Brady Consultants, Inc. P.O. Box A
Spearfish, South Dakota 57783

WATER QUALITY DIVISION REFERENCE NUMBER: 75-67

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E.

DATE OF REVIEW: July 18, 1975

ACTION: Construction authorized.

COMMENTS:

REP/lav
July 28, 1975

B...

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Water Reclamation and Waste Disposal for UPRR Car Cleaning Facilities,
Green River

ARCHITECT OR ENGINEER: R. H. Uhrich, V.G. Meedel, U.P.R.R. Company,
1416 Dodge St., Omaha, Nebraska 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 75-68

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: June 25, 1975

ACTION: Construction authorized (see compliance items).

COMMENTS:

1. On sheet G-6a, if 8" water line is potable, line from watermain to waste/
decant pump station will have to have a sanitary backflow preventer installed
or outlet(s) of line will have to be installed 4" above any water level.
2. Follow enclosed specifications for horizontal and vertical separation
between potable and non-potable water lines if the situation arises during
construction.

HJS:jk
Enclosure

cc: Phillip Hughes, District Sanitarian, Green River, WY

100

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wong Court, Mobile Home Trailer Court, Sheridan, Wyoming, Sheridan County.

ARCHITECT OR ENGINEER: John I. Doerr, Sheridan, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-69

REVIEWING ENGINEER: Roy E. Prior, Bill Garland, P.E.

DATE OF REVIEW: August 6, 1975

ACTION: Not authorized for construction

COMMENTS:

1. Plans and specifications require the signature or seal of an engineer registered in Wyoming.
2. Ten State Standards will be used as a review guideline.


REP:lav
August 6, 1975

cc: Malcolm Crawford, P.O. Box 973, Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

November 12, 1975

1. PROJECT: Wong Court, Mobile Home Park,
Sheridan, Wyoming (Sheridan County)
2. ARCHITECT OR ENGINEER: John I. Doerr,
Sheridan, Wyoming 82801
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-69R
4. REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E. 
5. DATE OF REVIEW: 11-12-75
6. ACTION: Not Authorized for Construction

7. COMMENTS:

The following information is needed to evaluate the facility:

- A. Profile view of sewer lines showing depth, manholes, invert elevations.
- B. Specific type of pipe being used, water lines must be NSF approved.
- C. Backfill spec's., water and sewer.
- D. Maximum distance for a cleanout is 150 ft. and only on the end of a line.
- E. Manholes are required at every change in direction, grade and junction of mains. Ie: two service lines coming together create a main line.
- F. Show details on six-inch water lines and fire hydrants.
- G. How is blocking determined, and when is it required? Clarify AWWA standard, show detail.
- H. Valving of water lines are required to separate areas in the system.
- I. Ends of lines on the water system need flushing hydrants or fire hydrants.
- J. Documentation showing permission to hook onto city utilities.
- K. Main sewer lines should be 8". Show design data to support the 6" lines.
- L. Disinfection procedure for water lines.
- M. Spec's. on testing of water and sewer lines.
- N. Check ten states standards on crossing of water and sewer lines.
- O. Fire hydrants in ground water should have the drains plugged and an alternate source to drain them for winter operation.

cc: Malcolm Crawford, Gillette, Wyo. City Engineer, City of Sheridan

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wong Court, Mobile Home Park, Sheridan, Wyoming 82801

ARCHITECT OR ENGINEER: VTN - 330 North Main, Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 75-69RRR

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E. *Ref.* *PS*

DATE OF REVIEW: January 16, 1976

ACTION: Not authorized for construction

COMMENTS:

- A. We need to see details on the meter pit.
- B. The plans show 51 sewer and water tops but only 48 trailer spaces, please clarify.
- C. The water line serving lots 22, 23, and 29 must be looped or have a flushing hydrant.
- D. Sewage lines that serve more than one trailer are considered collection lines and must be 6 inch diameter or greater. They must have manholes when they intersect other collection lines. The other end of the line must have a cleanout or a manhole. The maximum distance allowed between a cleanout on the end of a line and
- E. Water lines that serve more than one trailer are considered distribution lines. They must be looped or provided with a fire hydrant or a flushing hydrant.
- F. A by pass for the water meter will be required unless there is a standby system for the meter. Please document.

cc: Malcolm Crawford, Gillette
City Engineer, City of Sheridan
Steve Freudenthal, Special Assistant Attorney General

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

PROJECT: Wong Court, Mobile Home Trailer Court
Sheridan County

ARCHITECT OR ENGINEER: VTN
330 North Main Street, Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 75-69RRRR

REVIEWING ENGINEER: Roy E. Prior, Art Williamson, P.E.

DATE OF REVIEW: January 28, 1976

ACTION: Construction Authorized at this time. See comments.

COMMENTS: The items listed below are still considered unacceptable; however, all are accessible for inspection. For this reason, construction will be authorized at this time, with the provisions that the items listed below shall be corrected as outlined, and that Water Quality Division personnel shall inspect the facilities during and/or following construction to assure such correction. If the facilities fail to meet the approval of Water Quality Division personnel, the construction authorization shall be immediately revoked.

1. The water meter pit detail submitted is incomplete, showing no dimensions or construction materials. The pit is within an intersection which will carry almost all of the vehicular traffic for the Court. It also lies within the local ground water. Reasonably solid, durable, and watertight construction will therefore be required. A 55 gallon drum for an entrance is certainly not acceptable.
2. Due to the fact that the meter pit lies within ground water, the standby water line segment for meter replacement shall be disinfected and kept in a watertight container prior to use.
3. The down-facing elbow on all flushing hydrants shall be at least 6" above ground level and shall have a #4 mesh screen over the opening.

Copies Went To:

Roy Prior

Elmer Hubal

Tom Sawyer

Malcolm Crawford

Bob Sundlin

Marilyn Kite

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: "Watts Development" Public Water Extension, Wardwell Water District

ARCHITECT OR ENGINEER: Worthington, Lenhart, and Carpenter, Inc.
632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-70

REVIEWING ENGINEER: Jake Strohman, Robert H. Pinther, P.E.

DATE OF REVIEW: June 10, 1975

ACTION: Construction authorized.

COMMENTS:

Sewer-individual septic systems.

Plans will have to be approved by this office before construction of mobile home sewer and water risers and associated branch lines. This may be shown by a typical lot detail illustrating mobile home location and water and sewer lines and connections. A typical detail of water and sewer risers is also required in addition to materials used, slope of sewer line, leach field location, etc. The exception would be if lots were sold for private, single family residence.

HJS:jk
6/17/75

cc: Nix Anderson, 241 S. Conwell, Casper, WY.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hidden Valley Estates, Campbell County, Wyoming
Sewage collection system only.

ARCHITECT OR ENGINEER: Planning Services Inc., 200 N. American Rd., Cheyenne, WY. 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-71

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E.

DATE OF REVIEW: June 18, 1975

ACTION: Construction is not authorized.

COMMENTS:

- A. Maximum distance between manholes for an 8" line is 400 ft.
- B. Specification for joints on manholes should be that they be constructed water tight.
- C. If bricks are to be used at the top of the manhole, they must be sealed on the outside and be water tight.
- D. The sewer lines that serve lots eleven (11) through twenty (20), Block one (1) and lots fourteen (14) through twenty-four (24), Block two (2), will not be allowed the way designed. Service should be provided adjacent to each lot by the Home-Owners Association. These lines are considered collector lines and will be reviewed using the "Ten States Standards" as a guide. (i.e.: manholes at the end of each line with the minimum of eight (8) inch dia pipe.) There must be access to the line and manholes and the Home-Owners Association must maintain them.

REP:jk
6/18/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

3007


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hidden Valley Estates, Campbell County, Wyoming
Sewage Collection system only.

ARCHITECT OR ENGINEER: Planning Services Inc., 200 N. American Rd., Cheyenne,
Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-71

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E. 

DATE OF REVIEW: July 7, 1975

ACTION: Construction authorized. (See compliance item)

COMMENTS:

1. Sewer lines in easements controlled by the Home-Owners Association are to be maintained by the Association.
2. Cleanouts must be provided in service lines that are longer than 150 feet.

Comment -- plans are being reviewed for the sewer treatment plant.

REP/lav
July 25, 1975

cc: Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming
82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hidden Valley Estates - Water Distribution System and Sewage Treatment System. Campbell County, South of Gillette.

ARCHITECT OR ENGINEER: Planning Services Inc., 200 North American Road,
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-71R

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E. *REP* *PS*

DATE OF REVIEW: September 30, 1975

ACTION: Construction not authorized.

COMMENTS: The following information is needed to evaluate these plans and specifications:

- A. Details on where the 2 inch lines end;
- B. Pump rate and well test;
- C. Valve blocking;
- D. Disinfection procedures;
- E. Line crossings and separations;
- F. Locks on tank drains;
- G. Type of pipe used, i.e., NSF or AWWA approved;
- H. Trench backfill specification on water lines;
- I. Pressure testing;
- J. Details on covers for tanks or safety rails;
- K. Fencing and signs;
- L. Protection against flooding (plant and lift station) - Note: plant is in the bottom of a draw and lower than the elevation of an existing dam;
- M. What is the peak loading rate on the aeration tank;
- N. Outlet structure details - can the flow be measured;
- O. Details on standby power;
- P. Sludge removal and control i.e., process control, settleable solids control, disposal;
- Q. Clarification of lift station pumping rate. - GPM under peak load and normal load;
- R. Security for lift station.

REP:jkc
10/1/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY
Department of Planning and Development, City of Gillette, Campbell County, WY


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hidden Valley Estates - Water Distribution System and Sewage Treatment System, Campbell County, South of Gillette, WY

ARCHITECT OR ENGINEER: Planning Services Inc., 200 North American Road, Cheyenne, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-71RR

REVIEWING ENGINEER: Roy E. Prior, Paul C. Schwieger, P.E. 

DATE OF REVIEW: October 6, 1975

ACTION: Construction Authorized.

COMMENTS:

REP:jk
10/7/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY
Department of Planning and Development, City of Gillette, Campbell County, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hidden Valley Estates, Gillette, Wyoming

ARCHITECT OR ENGINEER: Planning Services, Inc.,
200 North American Road, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-71 RRR

REVIEWING ENGINEER: Tom Mueller, Paul C. Schwieger P.E. *TJM* *PCH*

DATE OF REVIEW: Febraury 3, 1976

ACTION: Construction Authorized, see Comment.

COMMENTS:

A copy of the NFS certification must be forwarded to this office.

REVIEW OF PLANS AND SPECIFICATIONS


WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mountain Bell Construction Garage, Septic System, Campbell County, WY

ARCHITECT OR ENGINEER: E. A. Katana, P.E.#1485

(Rick Ryden, G.H. deCastro, Mountain Bell, Cheyenne, WY.)

WATER QUALITY DIVISION REFERENCE NUMBER: 75-72

REVIEWING ENGINEER: Roy E. Prior, Paul C. Schwieger, P.E. 

DATE OF REVIEW: July 2, 1975

ACTION: Construction is authorized (See compliance items).

COMMENTS:

1. The entrance to the leach field should have a distribution box (which should be supported) or a header pipe to insure equal flow to all leach lines.
2. Longer lengths of 4 inch diam. perforated non-metallic pipe are permitted.

REP:jk
7/10/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Dollar Saver Mobile Home Park
Owner: Clifford H. Ellis, Dollar Saver Station, Thayne, Wyoming

ARCHITECT OR ENGINEER: None Listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-73

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: June 23, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plans and specifications:

1. Plans to have seal or signature of an engineer licensed to practice in the State of Wyoming.
2. A letter of verification from town water and sewer system manager stating that sewer collection and treatment system is capable of handling added hydraulic and organic load and that the water system can supply 350 gallons per day per unit at a minimum pressure of 20 psi under all conditions of flow.
3. Three (3) complete sets of plans and specifications are required.
4. Show size, location, type of material and specifications for all sewer and water lines. Show a profile of sewer systems showing manholes and elevations. State depth of burial for water lines. Give backfill specifications. Sewers to be aligned straight between manholes. End of a sewer collection line may have a cleanout instead of a manhole, provided length of lateral is less than 150 feet. Give detail and specifications for manholes and cleanout. Give detail and specifications for sewer and water risers with separation and cross-over specifications.

Give disinfection procedure for water lines. Water lines should be pressure tested before burial. Give specifications.

HJS:jk
6/24/75

Enclosure: Chapter III, 1975 Water Quality Rules and Regulations

cc: Phillip Hughes, District Sanitarian, Green River, WY

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Dollar Saver Mobile Home Park
Owner: Clifford H. Ellis, Dollar Saver Station, Thayne, WY

ARCHITECT OR ENGINEER: Ivan L. Call, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-73R

REVIEWING ENGINEER: Jake Strohman, W.L. Garland, P.E.

DATE OF REVIEW: July 16, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plans and specifications:

1. Are 1 through 6 on sewage line manholes? One and six could be a cleanout. Two through five will have to be manholes. Routing the sewer line straight between 5 and 3 could eliminate manhole #4. Show location of sewer line from service station. Manhole #3 could be installed on city main between manholes 7 and 8. Looking at profile of sewer, the invert elevation of 3 is the same elevation as manhole #8 which would put your connection to city main lower than the city main at that location. Give a typical detail and specifications of manhole and cleanouts and sewer line materials.
2. Need a typical detail of sewer and water risers and their locations and associate branch lines on a typical lot.
3. Water system is to be a complete loop with the source.
4. Need the letter of verification from city for sewer and water as requested in previous review.
5. Water line to be disinfected per AWWA C601-68 prior to use.
6. Water line to be pressure tested to $1\frac{1}{2}$ times operating pressure prior to burial.
7. Give trench backfill specifications.
8. Show horizontal separation of sewer and water lines.

EJS:jk
7/25/75

cc: Phillip Hughes, District Sanitarian, Green River, WY.

Back

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Ted's Supper Club, Leach Field, Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Charles H. Nixon, P.E., Nelson Engineering, Box 365,
Green River, Wyoming 82935

WATER QUALITY DIVISION REFERENCE NUMBER: 75-74

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: June 24, 1975

ACTION: Construction authorized.

COMMENTS:

Insure leach field area is not subject to vehicle traffic or overburden loading. Pump septic tank regularly. Recommend distribution by solid, settle-proof header pipe installed on west end of distribution field.

HJS:jk

cc: Phillip Hughes, District Sanitarian, Green River, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Replacement of existing septic tank system with a 23,000 gpd extended aeration plant at Wade's Trailer Court, Albany County.

ARCHITECT OR ENGINEER: Plan submitted by Walter V. Wade, Owner; P. O. Box 277
Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 75-75

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: June 18, 1975

ACTION: Construction authorized.

COMMENTS:

1. As the effluent will be discharged through an unnamed ditch into the Laramie River, a discharge permit application will need to be filed at least 180 days prior to operation of the plant.
2. A certified operator will be needed to operate this package plant. The owner may take the certification examination. The next certification examinations will be held in October 1975. Owner may inquire in early October as to where it will be held.

FRH:jk
6/18/75

cc: Phillip Hughes, District Sanitarian, Green River, WY

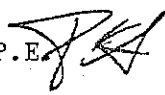
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Longview Addition No. 3, Sewer Extension, Casper, WY

ARCHITECT OR ENGINEER: R.G. McCoskery P.E., Casper Board of Public Utilities,
136 West 8th Street, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-76

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: July 9, 1975

ACTION: Construction authorized.

COMMENTS:

1. Sewer extension to comply with Casper Board of Utilities sewer specifications.
2. Prefab manhole joints to be sealed for water tightness.

HJS:jk
7/10/75

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Eastgate, Horizon Heights, Kelley Heights, Longview #3 Additions
Water Distribution Extensions

ARCHITECT OR ENGINEER: C.O. Andersen, Casper Board of Public Utilities
136 W. 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-53, 75-57, 75-21, 75-76

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines installed, disinfected, and tested per "Casper Board of Public Utilities" water specifications.
- 2) All dead ends of water mains are to have a fire hydrant or flushing valve installed.

JS/PS/mf

cc: Nix Andersen

Back

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sewer Extension for Water Storage Building, Lander, Wyoming

ARCHITECT OR ENGINEER: C. E. Spurlock, Jr., P.E., City of Lander, 183 S. 4th St.,
Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 75-77

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: June 24, 1975

ACTION: Construction authorized (see compliance item).

COMMENTS:

1. 18 inch vertical separation between water and sewer line is not shown on profile. Install such crossovers per enclosure.

HJS:jk
Enclosure

cc: William George, District Sanitarian, Worland, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cole Trailer Court, Douglas, Wyoming

ARCHITECT OR ENGINEER: John A. Lambert, Consulting Engineer, Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-78

REVIEWING ENGINEER: Robert H. Pinther, P.E.

Robert H. Pinther

DATE OF REVIEW: June 25, 1975

ACTION: Approval withheld pending compliance with the comments set forth below.

COMMENTS:

1. Submit a complete discription of the well, pump, pressure tank and pump setting. This should include, but not necessarily be limited to, plan and elevation views of the well, pump in place with sanitary well seal, discharge piping, pumphouse and pressure tank. NOTE: The well shall be cased with water tight pipe to a depth of at least 10 feet and the casing shall be grouted into place to prevent the entrance of surface water or shallow ground water.
2. Indicate the dimensions (depth, diameter, etc.) of the well.
3. Show the location of the well with respect to property lines, sources of contamination, etc.
4. Specify a minimum horizontal separation of 10 feet between all water lines and sewer manholes.
5. Indicate the level of the ground water table in the drainfield area.
6. Indicate the ground elevation at the well with respect to the surrounding area.
7. Provide a maximum separation of 400 feet between manholes.

RHP:jk

6/25/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming
E. A. Cole, Douglas, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cole Trailer Park, Converse County, Owner: Elvin Cole
Route 6
Douglas, Wyoming 82633

ARCHITECT OR ENGINEER: John A. Lambert, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-78R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger

DATE OF REVIEW: July 9, 1975

ACTION: Construction authorized (See compliance item).

COMMENTS:

Upon completion of well construction, forward yield of well, pump characteristics, bacteriological analysis, and storage capacity for water distribution system to this office for final approval of water supply.

HJS:jk
7/9/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY
Robert Coffman, Environmental Surveillance and Control, Cheyenne, WY

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Preliminary Report - Wastewater Treatment System for Vanguard 2 Mine
Energy Development Co., Hanna, Wyoming

ARCHITECT OR ENGINEER: Plan submitted by Arnold M. Hannum, Chief Engineer, Energy
Development Co., P. O. Box 36, Hanna, Wyoming 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 75-79

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: June 27, 1975

ACTION: Not authorized for construction; see comments below.

COMMENTS:

Preliminary plans and concept are approved; however final authorization for construction is withheld pending receipt of detailed construction plans and specifications for review and approval.

FRH:jk
7/8/75

P. 10

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Terrace Mobile Home Court #2, Casper, WY

ARCHITECT OR ENGINEER: C.K. Wolz, P. O. Box 322, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-80 R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 1, 1975

ACTION: Construction authorized (See compliance items).

COMMENTS:

The following items will have to be incorporated into plans and specifications:

1. Manhole required where trailer park ties into city main on Forrest Drive;
2. Letter from Casper Board of Utilities for water sewer service is required;
3. Sewer service branch line to connect to collection main at a maximum 45° bend in the direction of sewage flow;
4. Rewrite section C of specifications to meet requirements of enclosure;
5. Recommendation: Install control valves at turnarounds on water distribution loop on road "C" to prevent entire loop section from losing water supply, should a line break or maintenance;
6. Three complete sets of plans and specifications are required for mobile home parks if owner or engineer would like an approved copy.

One set of plans forwarded to Environmental Surveillance and Control for their portion of review.

HJS:jk
7/10/75

cc: Nix Anderson, Casper-Natrona Co. Health Dept., Casper, WY
Robert Coffman, Environmental Surveillance and Control, Cheyenne, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Antler Motel, Jackson, Wyoming
Box 575, Jackson Hole, Wyoming 83001

ARCHITECT OR ENGINEER: None listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-81

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: June 24, 1975

ACTION: Construction not authorized.

COMMENTS:

The following items will have to be incorporated into plans:

1. Profile of sewer line from motel to city manhole;
2. Verification letter from city for sewer and water services;
3. Engineer's seal or signature licensed to practice in State of Wyoming is required;
4. State disinfection procedure for water distribution system prior to use.
(current AWWA specifications)

HJS:jkk

cc: Phillip Hughes, District Sanitarian, Green River, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Hanna, 1975 Sewer Improvements - Lift Station 4" Force Main and 8" Gravity Main, Hanna, Wyoming

ARCHITECT OR ENGINEER: Johnson, Fermelia & Crank, Inc., 704 Pine Ave., Kemmerer, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-82

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: July 1, 1975

ACTION: Authorized for construction.

COMMENTS:

FRH:jk
7/8/75

cc: Ms. Evelyn Palaniuk, Town Clerk, Town of Hanna, Wyoming
Phillip Hughes, District Sanitarian, Green river, Wyoming

THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

STATE OFFICE BUILDING WEST

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 4, 1975

R. J. Timm
Plains Engineering
P. O. Box 117
Gillette, Wyoming 82716

Dear Mr. Timm:

Re: Rocky Point Subdivision
Gillette, Wyoming
75-83

This letter is to confirm that we have received the well log and water quality reports for Rocky Point Subdivision, Gillette, Wyoming. Based on the submitted lab reports, the water is acceptable for potability.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Prior".

Roy E. Prior
Environmental Engineer
Water Quality Division

REP:jk

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Rocky Point Subdivision Water System
5 miles southwest of Gillette, Wyoming Campbell County

ARCHITECT OR ENGINEER: R.J. Timm, P.E. Plains Engineering, Box 117
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-83

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. *JS*

DATE OF REVIEW: July 17, 1975

ACTION: Construction is authorized.

COMMENTS:

Sewage is to be disposed by private septic tank and leach field. Ensure no septic tank or leach field is installed within a horizontal distance of 100 feet for disposal field and 50 feet for septic tanks or sewer lines.

JS/lav
July 25, 1975

cc: Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cowgill Mobile Home Park, Byron, Wyoming

ARCHITECT OR ENGINEER: Lloyd Jager, P.E., Engineering Associates, P. O. Box 1539,
Cody, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-84

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 7, 1975

ACTION: Construction authorized (See compliance items).

COMMENTS:

The following minimum standard specifications will be a condition of this construction permit and trailer park will be constructed in this manner along with requirements of plans and specifications on file in this office or permit will be revoked:

- 1) Minimum slope of 4" sewer line to town line shall be $\frac{1}{4}$ inch per foot;
- 2) Sewer and water risers shall be encased in concrete a minimum of 4 inches thick and 12 inches in diameter at ground level;
- 3) Disinfect water lines after construction prior to use per AWWA C601-68;
4. Water service line to each lot is to have a minimum separation of ten feet between sewer service collection lines;
- 5) Vertical separation of lines at crossover locations are to meet specifications of enclosure.
- 6) Backfill trenches per good engineering practice.

Two sets of plans to Environmental Surveillance and Control for their portion of review.

HJS:jk
7/7/75

cc: Bill George, District Sanitarian, Worland
Robert Coffman, Environmental Surveillance and Control, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Deer Creek Trailer Park Water and Sewer System
Glenrock, Wyoming

Owners: Dick Carlisle
Ralph Emerson

ARCHITECT OR ENGINEER: C.K. Wolz, Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-85

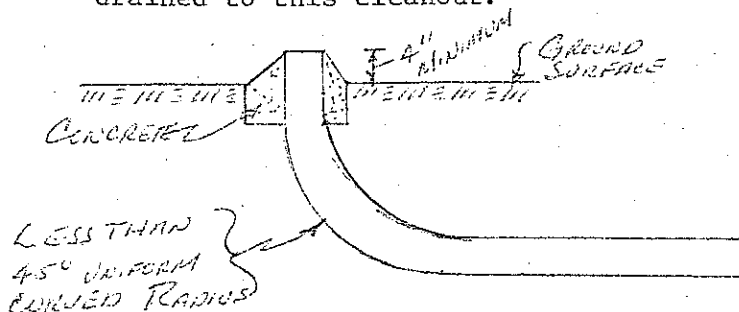
REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. *JS*

DATE OF REVIEW: July 8, 1975

ACTION: Construction authorized. (See compliance items)

COMMENTS: The items listed below are requirements for authorization to permit construction. If below items are not adhered to, permit will be revoked. Engineer has agreed to compliance items per phone conversation on July 8, 1975.

- 1) Terminate sump pump discharge into manhole 1 from pneumatic ejector pit.
- 2) Prefab joints of manhole 1 to have bituminous mastic installed for water tightness.
- 3) In regard to your request for variance to omit manhole 2 and manhole 5, this request is denied. A manhole that is constructed properly should be watertight. An alternate method of construction would be to space the distance between manhole 4 and manhole 5 to 400 feet and install a 6 inch cleanout for manhole 6 with a maximum distance of 150 feet between cleanout and manhole. This alternative can be used only if there are to be no future extensions. Cleanout would be placed between lots 1 and 2 and associate service branch line from lot 1 drained to this cleanout.



- 4) Line from manhole 1 to pneumatic ejector will have to be 6 inch minimum. Floor of manhole 1 will have to have 1:1 slope from all sides of manhole to outlet from manhole to pneumatic ejector.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Deer Creek Trailer Park Water and Sewer System Owners: Dick Carlisle
Glenrock, Wyoming Ralph Emerson

ARCHITECT OR ENGINEER: C. K. Wolz, Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-85

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 8, 1975

ACTION: Construction authorized. (See compliance items)

COMMENTS: (cont'd)

- 5) Pneumatic ejector pit shall have mechanical forced ventilation when pit is occupied. Recommend relay be connected to door of building such that when door opens it will turn on the forced ventilation fan. Electrical equipment shall comply with National Electrical code requirements for Class I Division 1 locations.
- 6) A spare triggering device for pneumatic ejector receiver activation will have to be acquired and stored on site. Maintenance personnel should be briefed on the mechanics involved to change this device as well as the operation of the lift station.

Thank you for your cooperation.

JS/lav
July 31, 1975

cc: Robert Coffman, Environmental Surveillance & Control, Cheyenne, Wyoming 82002
Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming 82716
Dick Carlisle, Ralph Emerson, P.O. Box 728, Glenrock, Wyoming 82637

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Skelley Truck Terminal
Sewage Disposal System Upgrading. Converse County

ARCHITECT OR ENGINEER: John A. Atkins, P.E. Mannon and Associates, Inc.
P.O. Box 963
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-86

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 10, 1975

ACTION: Construction is not authorized.

COMMENTS:

The following information will have to be included in plans and specifications:

- 1) What are plans for disposal of oil from oil and sand trap?
- 2) Sand and oil trap outlet is to be connected to septic tanks.
- 3) End of "T" protruding into liquid of oil and sand trap will have to be extended to one foot off of the bottom of trap on outlet structure only. Sand will settle in first compartment and lowering this outlet structure will create more storage room for oil.
- 4) State procedure for construction to ensure distribution box does not settle and subsequent unequal distribution. Recommend a larger level concrete base structure be installed under the box.
- 5) Inlet and outlet structures from septic tank and oil and sand trap shall be made of cast iron.
- 6) Need backfill specifications under and around septic tank and oil and grease trap to prevent settling.
- 7) Crown backfill over trenches to prevent settling from causing standing and runoff water from percolating through leach trench.
- 8) Specifications state 2% grade for leach trenches while plans show .2% grade. Should be 0.2% grade.
- 9) What is slope on 6 inch line from septic tanks to leach fields and 4" line from oil and grease trap to septic tanks. Need a profile.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Skelley Truck Terminal
Sewage Disposal System Upgrading. Converse County

ARCHITECT OR ENGINEER: John A. Atkins, P.E. Mannon and Associates, Inc.
P.O. Box 963
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-86

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: July 10, 1975

ACTION: Construction is not authorized.

COMMENTS: (con't)

10) Are any wells located in immediate area of land owned by client? If so, show locations. Show property lines if they are within 50 feet of leach field. Will there be any traffic over leach field?

11) State if any ground water or impervious soil layers were encountered in leach field area and the depth to which these parameters were checked.

JS/lav
July 25, 1975

cc: Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming
82716

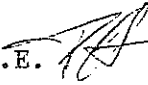
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Skelly Truck Terminal Sewage Modification, Douglas, WY

ARCHITECT OR ENGINEER: Mannon & Associates, Inc., P. O. Box 963,
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-86R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: August 4, 1975

ACTION: Construction Authorized.

COMMENTS:

HJS:jk
8/4/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

E-1

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Withrow Mobile Home Park, Rawlins Section 9, T21N, R87W

ARCHITECT OR ENGINEER: Dale Crank, P.E.
Box 631, Kemmerer, Wyoming 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 75-87

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 24, 1975

ACTION: (unauthorized construction)

COMMENTS:

The following information is required to evaluate sewer and water system:

An addendum to plans (Ref. 75-87) within 30 days will be sufficient.

1. Profile of sewer system or slopes and manhole top and invert elevations.
2. Water-sewer crossover specifications.
3. What do you mean by standard precast manholes?
Need detail and/or specifications.
4. Give disinfection and pressure test procedures.
5. Water riser details and specifications.

JS/lav
July 28, 1975

cc: Phillip Hughes, District Sanitarian, P.O. Box 1153, 131 E. Railroad,
Green River, Wyoming

Ron Withrow, Box 428, Rawlins, Wyoming 82301

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Withrow Mobile Home Park Rawlins Section 9, T21N R87W

ARCHITECT OR ENGINEER: Dale Crank, P.E., Box 631, Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 75-87R

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: August 13, 1975

ACTION: Construction not authorized pending receipt of compliance with undermentioned items.

COMMENTS:

1. Stop and waste valves are prohibited as a means for draining riser water pipes. As they are already installed, it is advised that the bleeder hole in each stop and waste valve be plugged with a 1/4 inch tubing which is projected to the surface as a means of air purging to get rid of water in the riser pipe when needed.
2. Provide a letter from the City of Rawlins indicating willingness and capability of providing water/sewer services now and in the future.

FRH/mf

cc: Phillip Hughes, District Sanitation
P.O. Box 1153, Green River, Wyoming 82935

Ron Withrow
Box 428, Rawlins, Wyoming 82301

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 75-87RR

Withrow Mobile Home Park

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Crank</u> (Last)	<u>Dale</u> (First)	<u>(Middle)</u>
------------------------	------------------------	-----------------

Box 631

(Street or P.O. Box)

<u>Kemmerer</u>	<u>Lincoln</u>	<u>Wyoming</u>	<u>83103</u>
(City)	(County)	(State)	

to construct, install, or modify a Mobile Home Park

facility located in the Town of Rawlins

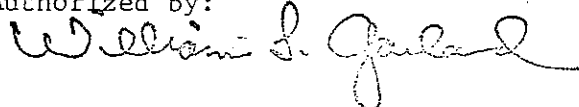
(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.
Director

Wyoming Dept. of Environmental Quality

February 3, 1977

Date of Issuance

cc: Phillip Hughes, District Sanitarian, P.O. Box 1153, Green River, Wyoming 82935
Ron Withrow, Box 428, Rawlins, Wyoming 82301

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Weslee Mobile Home Park on East Monroe Avenue, Riverton, Wyoming

ARCHITECT OR ENGINEER: Theodore H. Purcell, P.E. Tudor Engineering Co.,
516 East Main, Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-88

REVIEWING ENGINEER: Jake Strohman, W.L. Garland, P.E.

DATE OF REVIEW: July 15, 1975

ACTION: Construction is not authorized.

COMMENTS: (Con't)

7. For 75 units, peak water supply demand will be about 145 gpm. Since pressure tanks only have about 20% volume for storage, the 3000 gallon pressure tanks will only be about 600 gallon storage. If your well actually does put out 50 gpm, the supply plus storage would only last six to ten minutes at peak demand and we can therefore not approve this system. Our recommendation would be to have a pump installed on storage tank with a pressure sensitive switch such that when the well pump could not keep up with supply demand, this pump would supplement system from the storage tank. The well pump would also pump into storage tank with a highlevel relay to shut off flow when tank was full. At this time we cannot stipulate whether the storage tank is of sufficient size to supply the distribution system for domestic use. I am certain that it will not be of sufficient size for fire fighting purposes but this will have to be checked with the State Fire Marshall's Office. We will require the following well information to evaluate the supply and storage requirements for water supply system:

- a. depth of well
- b. yield of well
- c. actual pump output in gpm
- d. storage capacity

8. Well is to be grounded to a minimum depth of ten feet. After approval from State Engineer to drill well, well drilling and construction may commence so that the information in item 7 can be furnished.

JS/lav
July 28, 1975

cc: William George, District Sanitarian, P.O. Box 501, Worland, Wyoming
William P. Williams, Riverton City Engineer, Box 1700, Riverton, Wyoming
82501

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Weslee Mobile Home Park on East Monroe Avenue, Riverton, Wyoming

ARCHITECT OR ENGINEER: Theodore H. Purcess, P.E. Tudor Engineering Co.
516 East Main, Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-88

REVIEWING ENGINEER: Jake Strohman, W.L. Garland, P.E. *wjg*

DATE OF REVIEW: July 15, 1975

ACTION: Construction is not authorized.

COMMENTS:

The following items will have to be incorporated into plans and specifications:

1. On sheet 5, note 3 and line 3, add "for sewer line" to end of sentence.
2. Line from manhole 8 to cleanout will have to be 6 inch minimum diameter. (4 inch diameter pipe can only be used from a single family residence to collection line). Line from manhole 7 to cleanout will have to be 6 inch minimum diameter. The 80 feet of 4 inch line between manhole 1A and manhole 9 will have to be 6 inch if the design is left as is plus a manhole will have to be installed where line connects to main. Since no sewer line or manhole can be within 50 feet of a potable well, this sewer line will have to be moved to the south to obtain this separation. The sewer riser and service line to lot 3 may be located 20 feet from well but will have to be cast iron and pressure tested to a minimum of 50 psi. In moving the line between manhole 1A and manhole 9, you should look at a design to omit an extra manhole and 6 inch line for lots 19 and 20.
3. Specify protective cover on clean out to be water tight and we recommend this be bolted down to keep children from removing the cover and putting objects in sewer.
4. Need trench backfill specifications.
- 5) Water line at south end of park to be moved to south to minimize water-sewer line crossovers. Move second line from north running east-west to the north to minimize crossovers. Move water line servicing lots 19 and 20 to the west to minimize crossovers.
6. Drain from pumphouse to terminate to daylight or a sump pump is required. Give typical section of outfall showing natural ground.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 4, 1975

PROJECT: Weslee Mobile Home Village
East Monroe Ave., Riverton, Wyoming

Tudor Engineering Co.
516 E. Main
Riverton, Wyoming

ARCHITECT OR ENGINEER: Theodore Purcell, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-88R

REVIEWING ENGINEER: Jake Strohman, W. L. Garland, P.E.

DATE OF REVIEW: September 2, 1975

ACTION: Construction authorized.

COMMENTS:

- 1) Install mesh screen on water storage overflow.
- 2) Water storage to have a locked watertight access manhole on top.

JS/WLG/mf

cc: Robert Coffman, Environmental Surveillance and Control, Cheyenne
William George, District Sanitarian, Worland

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 25, 1975

PROJECT: LaBarge Wastewater Treatment System

ARCHITECT OR ENGINEER: Dale Crank - Johnson, Fermelia & Crank
Kemmerer, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-89

REVIEWING ENGINEER: William L. Garland, P.E. *wlg.*

DATE OF REVIEW: August 21, 1975

ACTION: Authorized for construction.

COMMENTS: Authorization for construction is contingent upon compliance
with the following items:

Wastewater Treatment System

- 1) The contract documents will be page numbered and those areas that are difficult if not impossible to read will be replaced.
- 2) An overall plan sheet will be provided.
- 3) A federal Project No. will be provided on the appropriate sheets.
- 4) The design of the aeration system will be modified to allow for series-parallel operation.
- 5) The polyethylene chlorination tank indicated on detail sheet 23 should be changed to read "30 gal.".
- 6) Emergency standby power will be provided for lift station #2.
- 7) Allowable infiltration rate will be changed in specifications to read 200 gals per inch diameter per mile per day.

WLG/mf

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 9, 1975

PROJECT: LaBarge Water Supply Project

ARCHITECT OR ENGINEER: George Dale Crank, (Johnson, Fermelia and Crank)

WATER QUALITY DIVISION REFERENCE NUMBER: 75-89R

REVIEWING ENGINEER: William L. Garland, P.E.

DATE OF REVIEW: September 5, 1975

ACTION: Authorized for Construction

COMMENTS:

WLG/mf



Department of Environmental Quality
Water Quality Division

STATE OFFICE BUILDING WEST

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 2, 1975

Mr. James Brooks
Office of Grants Administration
U.S. Environmental Protection Agency
1860 Lincoln St., Suite 900
Denver, CO 80203

Dear Jim:

Re: LaBarge Wastewater Treatment Facility
C-560110

Enclosed are two (2) copies of the plans and specifications on the Town of LaBarge Wastewater Treatment Facility. We have approved the design as amended and recommend that the project be approved for construction.

If you have any questions concerning this matter, feel free to contact me.

Sincerely yours,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland, P.E.
Environmental Engineer
Water Quality Division

WLG:jk

cc: Mayor Dennis Hacklin, Town of LaBarge, WY
George Dale Crank, Johnson, Fermelia and Crank, Kemmerer, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Air Force Installation
Detachment #459, Boulder, Wyoming

Burton Butcher
Sublette County Zoning Adminstr.
Box 506, Pinedale, Wyoming

ARCHITECT OR ENGINEER: U.S. Air Force

WATER QUALITY DIVISION REFERENCE NUMBER: 75-90

REVIEWING ENGINEER: Jake Strohmann W. L. Garland, P.E.

DATE OF REVIEW: September 2, 1975

ACTION: Construction authorized

COMMENTS:

Paul

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 21, 1975

PROJECT: Northridge Addition (Water Extension)
Wardwell W & S District
Casper, Wyoming

ARCHITECT OR ENGINEER: Worthington, Lenhart and Carpenter
632 South David
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-92

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger

DATE OF REVIEW: August 20, 1975

ACTION: Construction Authorized

COMMENTS:

JS/mf

cc: Nix Anderson

Book

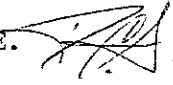
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Vista West No. 2 and West Gate Subdivision Water Distribution System
Natrona County, Wyoming Owner: Western Land and Development Co.
Box 567, Casper, Wyoming

ARCHITECT OR ENGINEER: Robert Streeter II, P.E.
Suite 411, 1st National Bank Building, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-93

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: July 23, 1975

ACTION: Construction authorized (See compliance item)

COMMENTS:

1. On sheet 4 of 5, install a fire hydrant, blowoff valve or flushing hydrant at the terminal end of the line on the west side of subdivision.

JS/lav
7/25/75

cc: Nix Anderson, Director, Environmental Health, Casper-Natrona County Health Dept.
241 South Conwell, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

November 6, 1975

1. PROJECT: Soldiers and Sailors Home, Buffalo, Johnson County, Wyoming
2. ARCHITECT OR ENGINEER: Gerald Deines & Associates, Arch.
136 South Wolcott, Casper, Wyoming 82601
J.S. Gordon, Consulting Engineer, Billings, Montana
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-94 *FC Frank Harmon*
4. REVIEWING ENGINEER: Roy E. Prior, Frank Harmon, P.E.
5. DATE OF REVIEW: November 5, 1975
6. ACTION: Not authorized for construction
7. COMMENTS:
The following additional information is needed to evaluate the system:

- A. Two 8" sewer lines should not join without a manhole or under buildings. Send more details on influent line; i.e., profile view, ability to be cleaned, etc.
- B. Details on package plant; i.e., complete drawings, design flows, pump details, etc.
- C. Operation & Maintenance Manual; i.e., the Home has a "D" level operator and the manual should be written so the operator can operate the plant.
- D. What will be done with the sludge?
- E. Operators must be able to measure and test the effluent of the plant. Can they do this?
- F. Will there be problems with the proposed location of plant? i.e., flood protection, odor, noise, etc.
- G. Details on non-freeze hydrants. Stop & waste hydrants are not allowed on potable water supplies.

Soldiers and Sailors Home, Buffalo, Johnson County, Wyoming

Gerald Deines & Associates

75-94 , November 5, 1975,

Red
Roy E. Prior, Frank Harmon

Not authorized for construction

COMMENTS: (continued)

H. Crossing details on water and sewer lines.

Two sets of plans and specifications should be sent for evaluation.

cc: Lloyd Hovee, Sec. Board of Charities and Reform,
Room 110, Capitol Building, Cheyenne, Wyoming, 82001

J.S. Gordon, Engineer
934 Poly Drive, Billings, Montana, 59101

P.G. McGrady, Soldiers and Sailors Home
Buffalo, Wyoming 82834

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

December 12, 1975

PROJECT: Soldiers & Sailors Home, Buffalo, Johnson County,
Wyoming

ARCHITECT OR ENGINEER: Gerald Deines & Associates, Architects,
136 South Wolcott, Casper, Wyoming 82601
J. S. Gordon, Con. Eng., Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-94R

REVIEWING ENGINEER: Roy E. Prior, Arthur Williamson, Ms P.E.
AE Williamson

DATE OF REVIEW: December 11, 1975

ACTION: Construction Authorized. See Comments:

COMMENTS:

This construction authorization is for the physical package treatment plant. There are several problems involved with this waste treatment system. They are as follows:

A. Sludge removal in the same manner as at the present facility is not an acceptable method of sludge disposal or treatment. Special considerations must be given to treatment and disposal of aerobic sludge.

B. The shop drawings did not show how the sludge should be removed from the sludge holding tank.

C. Proper instructions by the Manufacturers Representative is not an acceptable Operations and Maintenance Manual. There must be a written manual on how to operate the plant. I stress that the current operator has a "D" level certification and the manual should be written so that he can operate the plant.

This office wants a copy of the O & M manual for approval.

D. The NPDES permit requires flow measurements of the effluent. The drawings that were submitted show the effluent pipe as being in the ground.

E. Please send details on the Z urn Z-1385 post hydrant.

REP - AEW/ jb

cc: Lloyd Hovee, Sec., Board of Charities and Reform
Room 110, Capitol Bldg., Cheyenne, Wyoming 82002

J. S. Gordon, Consulting Engineers
934 Poly Drive, Billings, Montana 59102

P. G. McCrady, Soldiers & Sailors Home
Route 1, Buffalo, Wyoming 82834

THE STATE



OF WYOMING

75-94R

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

STATE OFFICE BUILDING WEST

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 12, 1975

P. G. McGrady, Commandant
Wyoming Soldiers and Sailors Home
Route 1
Buffalo, Wyoming 82834

Subject: Compliance Schedule

Dear Sir:

Ref: NPDES permit Wy-0022268

Upon completion of the new waste water treatment facility, the facility will have to meet secondary treatment (part B, page 4 of 12 of your permit). The discharge permit requires a compliance schedule. You should update your compliance schedule to reflect the changes in your facility (part B, page 4 of 12). The discharge permit requires that you must address the provisions for ultimate disposal of sludges and pollutants removed by the facility (page 8 of 12, page 12 of 12).

If you have any questions concerning this matter, please contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Prior".

Roy E. Prior
Water Quality Division

REP/jb

cc: Lloyd Hovee, Sec., Board of Charities and Reform
Room 110, Capitol Bldg., Cheyenne, Wyoming 82002

John Wagner, Permit Section, W. Q. D., D. E. Q.

Beet

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 22, 1975

PROJECT: Parklane Village (193 lots) Owner: D & M, Inc.,
Wheatland, Wyoming

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, P.E.
P.O. Box 856, Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 75-95

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 24, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plans and specifications:

- 1) Tie all water lines together to make complete loops with source or install fire hydrant, flushing hydrant or blowoff valve at the end of each line. Install valves at various locations to prevent large numbers of trailers from being without water due to a line break or maintenance.
- 2) State minimum slope that 6 inch sewer collection lines are to be installed with.
- 3) Note 8 should be "N.S.F." approved (National Sanitation Foundation). What does N.S.T. stand for?
- 4) Water lines to be disinfected per AWWA C601-68 and pressure tested to 1 1/2 times operating pressure prior to burial.
- 5) Cleanouts can be installed instead of a manhole only if the length of the lateral is 150 feet or less. The cleanout cannot be installed under trailer space. Recommend that the 4 inch "Y" located on sewer riser be omitted as they will be located under trailers and inaccessible. Install manholes at the end of each line.
- 6) Install concrete apron a minimum of 4 inches thick and 12 inches diameter around sewer riser at ground surface.

JS/FH/mf

Enclosure

cc: Malcolm Crawford

Boat

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

September 9, 1975

PROJECT: Parklane Village, Wheatland, Wyoming

ARCHITECT OR ENGINEER: Plan submitted by J. Kenneth Kennedy, P.E.
P.O. Box 856, Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 75-95R

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: September 8, 1975

ACTION: Construction is not authorized.

COMMENTS:

The following information, as asked for in the original plan review No. S 74-188R E.S. & C dated March 18, 1975, still needs to be submitted prior to approval of this project:

- 1) Typical manhole detail (side elevation) dimensional drawing.
- 2) Cross sectional drawings of typical water and sewer hook ups.
- 3) Statement indicating that all plumbing will be installed in accordance with the National Plumbing Code ASA A 40.8 - 1955.
- 4) Indicate material of sewer plug to be used when riser is not in use.
- 5) Indicate provision of minimal restroom facility for use in emergencies.

FRH/mf

cc: Robert L. Coffman, Director Division of Environmental Surveillance and Control
Harold Anderson, Goshen County Sanitarian, Torrington, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Parklane Village, Wheatland, Wyoming

ARCHITECT OR ENGINEER: Plans submitted by J. Kenneth Kennedy, P.E.
P.O. Box 856, Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 75-95RR

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: October 23, 1975

ACTION: Authorized for Construction

COMMENTS:

FRH:lac

October 23, 1975

cc: Robert L. Coffman, Director, Division of Environmental Surveillance and Control.
Harold Anderson, Goshen County Sanitarian, Torrington, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Jackson Hole Golf and Tennis Club Estates, Water and Sewer and
Street Improvements, Jackson WY

ARCHITECT OR ENGINEER: Gerald L. Lukasik, Christian, Spring, Sielbach and Assoc.,
2020 Grand Ave., Unit 3, Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-96

REVIEWING ENGINEER: William L. Garland P.E. *WLG*

DATE OF REVIEW: September 24, 1975

ACTION: Authorized for Construction

COMMENTS:

Due to the complexity of the systems involved, an operation and
maintenance manual should be prepared prior to completion of the project.

WLG:jk

cc: Phillip Hughes, District Sanitarian, Green River, WY

Dr. Eugene Zeizel, Teton County Section 208 Planning Agency, Jackson, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Jackson Hole Golf and Tennis Club Estates, Water, Sewer and Street Improvements
Jackson, Wyoming

ARCHITECT OR ENGINEER: Gerald L. Lukasik, 2020 Grand Avenue
Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-96R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: April 30, 1976

ACTION: Authorized for Construction

COMMENTS:

We advise you to conform to the following:

- 1) At least 1 gas mask in good operating condition and of a type approved by the U.S. Bureau of Mines as suitable for high concentrations of chlorine gas shall be available where chlorine gas is used. It is advisable to have one supplied either from the owner or manufacturer/contractor.
- 2) A bottle of ammonium hydroxide solution shall be available for detecting chlorine leaks.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Jackson Hole Golf and Tennis Club Estates, Water, Sewer, and Street
Improvements, Jackson, Wyoming

ARCHITECT OR ENGINEER: Gerald L. Lukasik, Christian, Spring, Sielbach and Associates
2020 Grand Avenue, Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-96RR

REVIEWING ENGINEER: ^{Garland}David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: May 13, 1976

ACTION: Authorized for Construction

COMMENTS: The modifications appear to be acceptable.


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Roompoon Bar and Lounge
Platte County, 1 mile north of Wheatland

ARCHITECT OR ENGINEER: Chet Smith, P.E. John Freed and Associates
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-97

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: July 24, 1975

ACTION: Construction authorized

COMMENTS:

JS/lav
July 25, 1975

cc: Chet Smith, P.O. Box 429, Fort Collins, Colorado 80521
Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

November 4, 1975

1. PROJECT: Roompoon Bar & Lounge, water well & waste water disposal system details. Platte County, 1 mile north of Wheatland, Wyoming
2. ARCHITECT OR ENGINEER: K. & H. Engineering,
Platte County Courthouse, Wheatland, Wyoming 82201
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-97R
4. REVIEWING ENGINEER: *Frank R. Harman* Frank R. Harman P.E.
5. DATE OF REVIEW: November 4, 1975
6. ACTION: Authorized for Construction
7. COMMENTS:

FH/jb

cc: Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming 82716

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hoff-Colva Trailer Park (6 unit)
Northridge Wardell W & S District, Natrona County

ARCHITECT OR ENGINEER: James H. Carpenter, 632 S. David, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-98

REVIEWING ENGINEER: Jake Strohman, Authur Williamson, P.E.

DATE OF REVIEW: August 18, 1975

ACTION: Construction Authorized.

COMMENTS:

JS:lav
August 19, 1975

cc: Nix Anderson, 241 South Convwell, Casper, Wyoming
Bob Moore, Box 728, Mills, Wyoming
Mary Ann Hoff, Box 2165, Casper, Wyoming
Robert Coffman, Director, Environmental Surveillance and Control, Cheyenne

100

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Highland Estates Subdivision off-site Water and Sewer Services,
Gillette, Campbell County, Wyoming

ARCHITECT OR ENGINEER: Planning Services, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-99

REVIEWING ENGINEER: Roy E. Prior, Bill Garland, P.E.

DATE OF REVIEW: August 7, 1975

ACTION: Not authorized for construction.

COMMENTS:

1. Need allocation map.
2. Need to know what the line is going to serve.
3. Need complete specifications.
4. Need disinfection procedures.
5. Need copy of an agreement from City of Gillette to accept the system.
6. Calculations - computation should be presented to indicate depths and velocities at minimum, average and maximum daily waste flow.

REP:lav
August 7, 1975

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 21, 1975

PROJECT: Glenaire Village Mobile Home Park
Natrona County

ARCHITECT OR ENGINEER: Harry O. Patterson
311 South Center, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-100

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger, P.E.

DATE OF REVIEW: 8/20/75

ACTION: Construction not authorized

COMMENTS: The following items will have to be incorporated into plans and specifications:

- 1) All sewer lines with more than one unit have to be a minimum of 6 inches diameter.
- 2) Specifications for water sewer crossovers are required.
- 3) All sewer lines to have minimum slopes as shown
 - 8 inch diameter - 0.40 ft./100ft.
 - 6 inch diameter - 0.60 ft./100 ft.
 - 4 inch diameter - 1.00 ft./100 ft.

Sewer line on sheet 6 does not have .4 feet/100 ft.

- 4) All laterals over 150 feet will require a manhole in place of a cleanout. Give details and specifications for manholes.
- 5) Compaction requirements for trenches.
- 6) Water lines to be pressure tested to 1 1/2 times operating pressure prior to burial.
- 7) Disinfect water lines per AWWA C601-68
- 8) LOOP ENDS of water mains or install a flushing hydrant or blow off valve at the end of each main.
- 9) Letter of acceptance from Casper Board of Utilities is required.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 21, 1975

PROJECT: Page 2 - Glenaire Village Mobile Home Park
Natrona County

ARCHITECT OR ENGINEER: Harry O. Patterson
311 South Center, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-100

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger, P.E.

DATE OF REVIEW: 8/20/75

ACTION: Construction not authorized - continued.

COMMENTS:

10) Specifications for water and sewer lines.

11) Sewer riser to be 4" above ground surface with a concrete apron 4" thick and 12" minimum diameter. A cap should be provided and installed when space is unoccupied.

JS/mf

cc: Nix Anderson

Buck

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

August 25, 1975

PROJECT: Glenaire Village Mobile Home Park
Casper, Wyoming

ARCHITECT OR ENGINEER: Harry O. Patterson
311 South Center, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-100R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 25, 1975

ACTION: Construction authorized

COMMENTS: Compliance with the following items is mandatory:

- 1) Enclosed is a copy of a crossover - specifications to be adhered to. Item 1 of the August 22, 1975 letter is incorrect.
- 2) Pressure test water lines to 1 1/2 times operating pressure prior to burial.
- 3) Flushing hydrants to be sanitary, freezeless type units that terminate 4 inches above ground surface, surface water or runoff water, whichever is higher. A mobile home riser is not a flushing hydrant. Recommend that the ends of lines be looped in place of these hydrants.
- 4) PVC for water lines to have "NSF" approval seal.

JS/PS/mf

Enclosure

cc: Nix Anderson
Robert Coffman